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L5 ANSWER 1 OF 1 JAPIO COPYRIGHT 2001 JPO
ACCESSION NUMBER: 1997-260214 JAPIO
TITLE: ELECTRIC DOUBLE LAYER CAPACITOR
INVENTOR: TSUSHIMA MANABU; MORIMOTO TAKESHI; HIRATSUKA KAZUYA;
KAZUHARA MANABU; KAWASATO TAKESHI
PATENT ASSIGNEE(S): ASahi GLASS CO LTD, JP (CO 000004)
PATENT INFORMATION:

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APPLICATION INFORMATION

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ABSTRACT:

PURPOSE: TO BE SOLVED: To lessen the internal resistance of an electric double layer capacitor and to form the electric double layer capacitor into an electric double layer capacitor of the density of a large capacity by a method wherein a separator is formed into a porous sheet, which is formed by bonding together electrically insulative inorganic compound powder in an organic electrolyte with a resistive resin and has a thickness of a specified value or lower.

CONSTITUTION: powder of the mean particle diameter of about 7. μ m is used as electrically insulative inorganic compound powder, PTEE powder is used as a resin, the ZrO₂ powder is kneaded with the PTEE powder at the mixing rate of the ZrO₂ powder with the PTEE powder of a ratio of 60wt.% to 40wt.% and a powder body obtainable by bonding together the ZrO₂ powder in an organic electrolyte with the resin is rolled into a porous sheet shape of a thickness of 200. μ m or thinner to form a separator. This separator is arranged in such a way as to superpose on one pair of electrodes, one side of which is a polarized electrode. Thereby, as the internal resistance of an electric double layer capacitor can be lessened and the double layer capacitor can be formed into one of the density of a large capacity, the electric double layer capacitor can be used as an electric double layer capacitor suitable for an ultra- large capacity of an electrostatic capacity of 50 to 20000F and a high current of an allowable current of 1 to 1000A.